

*C. Medical*  
~~90~~ 27. (New) A dehydroxylated mesoporous silica film as recited in claim ~~25~~<sup>88</sup>, wherein said gas-phase species and said physisorbed species are removed from said porous film by applying a vacuum on said porous film.

~~91~~ 28. (New) A dehydroxylated mesoporous silica film as recited in claim ~~24~~<sup>87</sup>, wherein said gas-phase species and said physisorbed species are removed from said porous film by applying a flowing forming gas or inert gas.

~~92~~ 29. (New) A dehydroxylated mesoporous silica film as recited in claim ~~25~~<sup>88</sup>, wherein said gas-phase species and said physisorbed species are removed from said porous film by applying a flowing forming gas or inert gas.

~~93~~ 30. (New) A dehydroxylated mesoporous silica film as recited in claim ~~24~~<sup>87</sup>, wherein said surfactant containing silica precursor solution comprises alkyl-substituted silica precursors.

~~94~~ 31. (New) A dehydroxylated mesoporous silica film as recited in claim ~~25~~<sup>88</sup>, wherein said surfactant containing silica precursor solution comprises alkyl-substituted silica precursors.

~~95~~ 32. (New) A dehydroxylated mesoporous silica film as recited in claim ~~26~~<sup>89</sup>, wherein the surfactant containing silica precursor solution comprises alkyl-substituted silica precursors.

~~96~~ 33. (New) A dehydroxylated mesoporous silica film as recited in claim ~~27~~<sup>90</sup>, wherein the surfactant containing silica precursor solution comprises alkyl-substituted silica precursors.

~~97~~ 34. (New) A dehydroxylated mesoporous silica film as recited in claim ~~28~~<sup>91</sup>, wherein the surfactant containing silica precursor solution comprises alkyl-substituted silica precursors.

~~98~~ 35. (New) A dehydroxylated mesoporous silica film as recited in claim ~~29~~<sup>92</sup>, wherein the surfactant containing silica precursor solution comprises alkyl-substituted silica precursors.